

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	50	(US-3818728-\$ or US-4244310-\$ or US-4248065-\$ or US-4254767-\$ or US-4255655-\$ or US-4256047-\$ or US-4258713-\$ or US-4264219-\$ or US-4265137-\$ or US-4266493-\$ or US-4267771-\$ or US-4271093-\$ or US-4271098-\$ or US-4274456-\$ or US-4287727-\$ or US-4366763-\$ or US-4392441-\$ or US-4422564-\$ or US-4476793-\$ or US-4485752-\$ or US-4493280-\$ or US-4502400-\$ or US-4541254-\$ or US-4546714-\$ or US-4555935-\$ or US-4617760-\$). did. or (US-4807451-\$ or US-4827764-\$ or US-4840060-\$ or US-4925439-\$ or US-5219233-\$ or US-5284030-\$ or US-5304185-\$ or US-5308332-\$ or US-5403288-\$ or US-5415119-\$ or US-5562058-\$ or US-5669502-\$ or US-5676658-\$ or US-5688247-\$ or US-5690619-\$ or US-5695476-\$ or US-5699821-\$ or US-5700250-\$ or US-5777484-\$ or US-5795339-\$ or US-5813356-\$ or US-5851196-\$ or US-6080137-\$ or US-6185445-\$).did.	USPAT	OR	ON	2006/10/30 09:52
L2	23	("1795235"   "2072969"   "2153342"   "2157989"   "2173488"   "3247815"   "3292393"   "3534566"   "3641788"   "3722434").PN. OR ("3818728").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 09:54
L3	5	("2952031"   "3542030").PN. OR ("4254767").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:28
L4	0	"112".\$.ccls. and (needle with retract with base)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:28
L5	24	"112".\$.ccls. and (needle with retract with base)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:34
L6	723	"112".\$.ccls. and (needle and retract and base)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:34
L7	307	"112".\$.ccls. and (needle with retract and base)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:35

## EAST Search History

L8	16	"112"/\$.ccls. and (needle with retract and base and trigger)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:35
L9	215	"112"/\$.ccls. and (needle with retract and base and (lever or trigger))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:45
L10	338	112/169	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:46
L11	115	L10 and (needle with (retract or release or lift))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 10:46
L42	16	("3964481"   "4108176"   "4177810"   "4276879").PN. OR ("4487602").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 13:35
S1	775	(604/890.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 08:44
S2	99	S1 and (needle and (piston or actuator))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:11
S3	1394	(604/110).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 09:11
S4	571	S3 and (needle and (piston or actuator))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:12
S5	308	S3 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:12
S6	306	S5 not S2	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 09:43
S7	2	((("20030229308") or ("20030105430")).PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 09:46
S8	766	(604/272).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 10:24

## EAST Search History

S9	39	S8 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:25
S10	37	S9 not (S6 or S2)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:25
S11	420	604/136	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:29
S12	199	S11 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:30
S13	183	S12 not (S2 or S6 or S10)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:30
S14	25	("2605765"   "2752918"   "2856924"   "3572336"   "3702609"   "3712301"   "4227528").PN. OR ("4894054").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 10:50
S15	44	(604/137).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 10:57
S16	30	S15 not S13	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 10:58
S17	30	(US-20040162521-\$ or US-20030225373-\$ or US-20040225281-\$ or US-20030130619-\$ or US-20040059316-\$).did. or (US-5931814-\$ or US-5267963-\$ or US-5885257-\$ or US-5429612-\$ or US-6638248-\$ or US-5487733-\$ or US-4886499-\$ or US-5848990-\$ or US-5356383-\$ or US-4340048-\$ or US-5167632-\$ or US-6290683-\$ or US-6093172-\$ or US-6595956-\$ or US-6796967-\$ or US-5891105-\$ or US-4442836-\$ or US-5453092-\$ or US-4894054-\$ or US-6293925-\$ or US-6666100-\$ or US-3702609-\$ or US-4781688-\$ or US-5591188-\$ or US-4227528-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/17 11:07

## EAST Search History

S18	13	S17 and trigger	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 11:29
S19	27	("3515127"   "3656472"   "3702608"   "3797489"   "3941130"   "4150669"   "4188950"   "4261358"   "4333459"   "4512767"   "4723937"   "4787891"   "4850973"   "5037396"   "5137516"   "5167632").PN. OR ("5267963"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 11:12
S20	854	(604/131).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 11:29
S21	146	S20 and (needle and (piston or actuator) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 11:30
S22	123	S21 not (S2 or S6 or S10 or S13)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:01
S23	3	("9857683").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	OFF	2005/08/17 12:13
S24	238	(604/141).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	OFF	2005/08/17 12:03
S25	29	S24 and (needle and trigger)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:03
S26	2033	(trigger or latch) with (base or skin) and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:14
S27	5205	(trigger or latch) with (base or skin or surface) and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:15
S28	4098	(604/110,890.1,272,136,137,131, 141).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 12:15

## EAST Search History

S29	215	S27 and S28	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 12:16
S30	127	S29 and (piston or actuator)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 15:53
S31	414	604/116	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:23
S32	118	604/116 and needle and (actuator or piston or retract\$4)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:24
S33	86	("3923166"   "3949747"   "4401433"   "4573452"   "4653509"   "4849692"   "4945305"   "5053687"   "5078140"   "5081381"   "5086401"   "5142930"   "5161542"   "5184601"   "5186174"   "5234000"   "5240011"   "5243266"   "5251127"   "5269034"   "5273039"   "5279309"   "5280427"   "5299288"   "5305203"   "5307072"   "5343385"   "5354158"   "5383454"   "5389101"   "5397323"   "5402801"   "5408409"   "5415182"   "5417210"   "5425616"   "5445166"   "5453686"   "5464013"   "5494034"   "5564436"   "5564663"   "5568593"   "5572999"   "5584292"   "5600330"   "5628327"   "5630431"   "5640170"   "5643286"   "5647373"   "5676673"   "5695500"   "5744953"   "5748767"   "5749362"   "5767669"   "5776153"   "5782764"   "5795291"   "5800352"   "5800423"   "5803089"   "5803912"   "5806518"   "5807378"   "5817084"   "5829444"   "5833656"   "5851183"   "5865744"   "5873822"   "5887121"   "5943914"   "5950629"   "5951475"   "5967980"   "5976156"   "6000297"   "6021342"   "6024695"   "6138495"   "6309397"   "6406472"   "6413264"   "6491701").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 16:27

## EAST Search History

S34	827	604/117	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:51
S35	294	604/117 and (trigger or latch or piston or actuator)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:52
S36	272	S35 not S32	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:52
S37	217	S36 and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 16:52
S38	14	("2047010"   "3530785"   "4269192").PN. OR ("5520650").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 17:31
S39	232	(604/156,157).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 17:33
S40	136	S39 and (needle and (actuator or piston or retract\$4 or latch))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 17:34
S41	121	S40 not (S32 or S33 or S37)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 17:34
S42	17	("3073306"   "3605742"   "3702608"   "4085748").PN. OR ("4270537").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/17 17:57
S43	1255	(604/181,187).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 18:03
S44	0	("L13and(needleand(retract\$4oractuatororpistonortrigger)andspring)").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 18:04
S45	225	S43 and (needle and (retract\$4 or actuator or piston or trigger) and spring)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:04

## EAST Search History

S46	211	S45 not (S41 or S37 or S36)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:05
S47	2388	(604/198,197,192).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/17 18:30
S48	1269	S47 and (needle and (trigger or actuator or latch or retract\$4))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:31
S49	1198	S48 not (S46 or S41 or S37 or S32)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:32
S50	990	S49 and needle with retract\$4	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:32
S51	85	S50 and trigger	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/17 18:34
S52	1	("5520650").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/18 09:04
S53	1	("5267963").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/18 09:32

## EAST Search History

S54	61	(US-20010025168-\$ or US-20030130619-\$ or US-20030225373-\$ or US-20040059316-\$ or US-20040162521-\$ or US-20040225281-\$).did. or (US-3702609-\$ or US-4067334-\$ or US-4198975-\$ or US-4227528-\$ or US-4231368-\$ or US-4261358-\$ or US-4270537-\$ or US-4340048-\$ or US-4442836-\$ or US-4512767-\$ or US-4781688-\$ or US-4850973-\$ or US-4858607-\$ or US-4886499-\$ or US-4894054-\$ or US-4966589-\$ or US-5024665-\$ or US-5034003-\$ or US-5167632-\$ or US-5201716-\$ or US-5267963-\$ or US-5295971-\$ or US-5356383-\$ or US-5429612-\$ or US-5453092-\$ or US-5487733-\$). did. or (US-5520650-\$ or US-5591188-\$ or US-5637094-\$ or US-5672161-\$ or US-5836911-\$ or US-5848990-\$ or US-5858001-\$ or US-5885257-\$ or US-5891093-\$ or US-5891105-\$ or US-5931814-\$ or US-5935113-\$ or US-6001089-\$ or US-6056728-\$ or US-6083237-\$ or US-6093172-\$ or US-6149626-\$ or US-6149629-\$ or US-6254575-\$ or US-6264637-\$ or US-6290683-\$ or US-6293925-\$ or US-6447527-\$ or US-6595956-\$ or US-6638248-\$ or US-6666100-\$ or US-6676669-\$). did. or (US-6796967-\$ or US-6830562-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/18 09:35
S55	9	S54 and (needle near lock\$4)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/18 09:36
S56	1	("9301851").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/08/18 11:37
S57	23	WOZENCROFT-ROBERT-MICHAEL. in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/08/18 11:38
S58	101	dubrul.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:22



## EAST Search History

S59	20	S58 and (needle and inject)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:23
S60	50	S58 and (needle)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:23
S61	30	S60 not S59	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/12 16:23
S62	0	("2003/0225373").URPN.	USPAT	OR	ON	2006/05/12 16:33
S63	34	bobroff.in.	USPAT	OR	ON	2006/05/12 16:33
S64	1	bobroff.in. and needle	USPAT	OR	ON	2006/05/12 16:36
S65	14	("4685903"   "4755173"   "5122119"   "5147375"   "5176662"   "5257980"   "5390671"   "5568806"   "5584813"   "5586553"   "5591188"   "5779665"   "5851197").PN. OR ("6607509"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/12 16:37
S66	28	("3515127"   "3656472"   "3702608"   "3797489"   "3941130"   "4150669"   "4188950"   "4261358"   "4333459"   "4512767"   "4723937"   "4787891"   "4850973"   "5037396"   "5137516"   "5167632").PN. OR ("5267963"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/12 16:55
S67	1	("4886499").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:05
S68	3	((("4886499") or ("2605765"))).PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:07
S69	6	((("4886499") or ("2605765") or ("4894054") or ("5312364") or ("6238375"))).PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:19
S70	44	(604/137).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:43

## EAST Search History

S71	143	(604/136).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/15 10:43
S72	139	S71 not S70	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/15 11:13
S73	1	("9301851").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/05/16 12:51
S74	1554	(604/110).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/10/11 14:35
S75	447	(trigger with skin) and (needle)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/11 14:44
S76	16	(trigger with skin) and (needle with retract) and (trigger with retract)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/11 14:52
S77	35	(trigger with skin) and (needle) and (trigger with retract)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/11 14:52
S78	19	S77 not S76	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/11 15:04
S79	6	("3430626" "4894054" "4894054" "5201716" "5201716" "5267963" "6149626").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/11 15:04
S80	21	("2806473"   "4822343"   "4907600"   "4976271"   "5000167").PN. OR ("5201716").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/11 15:04
S81	84	LAVI-GILAD.in. or DAILY-DAVID.in. CARMEL-UDI.in. YIGAL-GIL.in. AZOULAY-AVI.in. CABIRI-OZ.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/24 19:53
S82	1	("6595956").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/10/24 19:53

## EAST Search History

S83	11	("3802430"   "4150672"   "4320757"   "4886499"   "5370630"   "5785688"   "5814020"   "5860957"   "6045534").PN. OR ("6595956").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/24 19:54
S84	2	"604"/\$.ccls. and (needle with retraction with trigger with skin)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:20
S85	2	"604"/\$.ccls. and (needle with retraction with trigger with base)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:07
S86	5	("20060041224" "20060173413" "7018344" "7052483" "7056302").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:07
S87	28	("20020022855"   "20020072720"   "20020119711"   "20030225373"   "4601708"   "4755173"   "4787891"   "4966589"   "4988339"   "4994042"   "5147375"   "5176662"   "5257980"   "5368045"   "5522803"   "5545143"   "5562631"   "5586553"   "5591188"   "5779665"   "5851197"   "5868711"   "5957895"   "5980506"   "5997507"   "6093172"   "6293925"   "6607509").PN. OR ("7052483").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/25 10:10
S88	7	604/136 and (needle with retraction with trigger)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:28
S89	3	("20030014018" "5137516" "5176662").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:27
S90	6	604/117 and (needle with retraction with trigger)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:30
S91	77	"604"/\$.ccls. and (needle with retraction with trigger)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 11:04
S92	5	faust-mark.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:42

## EAST Search History

S93	75	("0109829" "0125669" "0130619" "0158520" "0161332" "0173769" "0199823" "0002682" "20030014018" "20050043687" "20050075606" "20050131346" "20060041224" "20060173413" "0225373" "0225374" "3547119" "4531937" "4755173" "4994042" "0045867" "5092853" "5129884" "5176650" "5176662" "5257980" "5522803" "5545143" "5573510" "5575777" "5584813" "5591188" "5676156" "5848990" "5851197" "5968011" "5980506" "0053889" "6017328" "6056718" "6056726" "6077244" "6086575" "6093172" "6123690" "6159181" "6293925" "6302866" "6355021" "6450992" "6520938" "6572586" "6579267" "6607509" "6685674" "0060781" "7018344" "7052483" "7056302" "0077599").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:58
S94	6	("3430626" "4894054" "4894054" "5201716" "5201716" "5267963" "6149626").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 10:59
S95	29	("3515127"   "3656472"   "3702608"   "3797489"   "3941130"   "4150669"   "4188950"   "4261358"   "4333459"   "4512767"   "4723937"   "4787891"   "4850973"   "5037396"   "5137516"   "5167632").PN. OR ("5267963").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/25 11:01
S96	62	"604"/\$.ccls. and (needle with retract with trigger)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 11:05
S97	158	"604"/\$.ccls. and (needle and (base with (retract or trigger)))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/25 11:05
S98	71	(needle and trigger and (skin with base) and retract)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/27 16:06
S99	135	retract with needle with skin	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/27 16:06

## EAST Search History

S10 0	14	retract with needle with (skin with contact)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/10/27 16:06
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